

WHAT IS CLAIMED IS:

1. A method of audio synthesis capable of reducing CPU load, which uses frequency modulation (FM) to generate a synthetic audio, comprising the steps:

5 establishing a parameter look-up table;

 outputting a wave parameter and a characteristic parameter from a microprocessor to an audio processor;

 extracting a modulation parameter and a control parameter from the parameter look-up table based on the wave parameter outputted by the
10 audio processor; and

 performing frequency modulation to generate the synthetic audio by the audio processor based on the modulation parameter, the control parameter and characteristic parameter.

2. The method as claimed in claim 1, wherein the parameter look-up
15 table is stored in a read-only memory (ROM).

3. The method as claimed in claim 1, wherein the wave parameter has a timbre parameter and a scale parameter.

4. The method as claimed in claim 3, wherein the timbre parameter is relative to the modulation parameter.

20 5. The method as claimed in claim 3, wherein the scale parameter is relative to the control parameter.

6. The method as claimed in claim 1, wherein the microprocessor is a central processing unit (CPU).

7. The method as claimed in claim 1, wherein the audio processor is

implemented in a sound card.

8. A system of audio synthesis capable of reducing CPU load, which uses frequency modulation to generate a synthetic audio, comprising:

5 a microprocessor, to output a wave parameter and a characteristic parameter;

a memory, to store a parameter look-up table of which records a modulation parameter and control parameter corresponding to the wave parameter; and

10 an audio processor, to input the wave parameter and the characteristic parameter for reading the modulation parameter and the control parameter from the parameter look-up table based on the wave parameter and further performing frequency modulation to produce the synthetic audio based on the modulation parameter, the control parameter, and the property parameter.

15 9. The system as claimed in claim 8, wherein the microprocessor is a central processing unit (CPU).

10. The system as claimed in claim 8, wherein the audio processor is implemented in a sound card.

20 11. The system as claimed in claim 8, wherein the wave parameter has a timbre parameter and a scale parameter.

12. The system as claimed in claim 8, wherein the memory is a ROM.

13. The system as claimed in claim 11, wherein the timbre parameter is relative to the modulation parameter.

14. The system as claimed in claim 11, wherein the scale parameter is relative to the control parameter.